

Amendments to the Claims

Please amend the claims as follows:

1. (Currently Amended): A computerized method for indicating availability of one or a multitude of application-servers, comprising:

said method comprising a first step of inserting into a central availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as said application-server is available, ~~and;~~

said method comprising a second step of inserting into said central availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, ~~and;~~

whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server; and

said method comprising a third step of updating said notification-period depending on the amount of workload of said application-server

either by increasing said notification-period, if said amount of the workload increases,

or by decreasing said notification-period, if said amount of the workload decreases.

2. (Cancelled).

3. (Currently Amended): A computerized method for indicating availability according to claim 1, comprising:

wherein within said first and said second step also an application-server-identification is inserted into said central availability-database and associated with said first- and said second-data-element.

4. (Currently Amended): A computerized method for indicating availability according to claim 3, comprising:

wherein said measure of availability indicates unavailability of said application-server, if said difference exceeds said notification-period.

5. (Currently Amended): A computerized method for indicating availability according to claim 1, comprising:

wherein said central availability-database is shared by a multitude of application-servers each comprising a hot-pool of said one or multitude of application-servers, ~~and~~;

wherein for said hot-pool a watchdog is monitoring said hot-pool's availability status, ~~and~~;

wherein said method is being executed by said watchdog, ~~and~~;

wherein said availability-signal is being repeated as long as at least one of said application-servers of said hot-pool is available, ~~and~~;

wherein within said first and said second step also a hot-pool-identification is inserted into said central availability-database and is associated with said first- and said second-data-element.

6. (Currently Amended): A computerized method for indicating availability according to claim 2, comprising:

whereby as a second difference the difference of said recent availability-time and a previous availability-time is included in said measure of availability.

7. (Currently Amended): A computerized method for indicating availability according to claim 5, comprising:

whereby as a second difference the difference of said recent availability-time and a previous availability-time is included in said measure of availability.

8. (Currently Amended): A computerized method for determining availability of one or multitude of application-servers for accepting application-service-request, comprising:

said method comprising a first step of querying a central availability-database
for a first-data-element comprising a notification-period, said notification-
period defining an upper time limit for a repetition-period of an availability-signal being
repeated as long as said application-server is available, ~~and;~~

for a second-data-element comprising for a recent availability-signal its
time-stamp as recent availability-time, ~~and;~~

said method comprising a second step of determining a measure of availability of
said application-server by comparing the difference of the current-time and said recent
availability-time to said notification-period; ~~;~~

said method comprising a third step of issuing an application-service-request to
said application-server only, if said measure of availability indicates availability of said
application-server, ~~;~~ and

~~wherein said measure of availability of the second step indicates unavailability of
said application-server, if said difference exceeds said notification-period~~ said method
comprising a fourth step of updating said notification-period depending on the amount of
workload of said application-server

either by increasing said notification-period, if said amount of the workload
increases,

or by decreasing said notification-period, if said amount of the workload
decreases.

9. (Cancelled).

10. (Currently Amended): A computerized method for determining availability
according to claim 8, comprising:

wherein said method is querying in said first step also for a third-data-element
comprising a previous availability-time for a previous availability-signal, ~~;~~ and

wherein in said second step also as a second difference the difference of said recent
availability-time and said previous availability-time is included in said measure of
availability.

11. (Currently Amended): A computerized method for determining availability according to claim 8, comprising:

wherein said measure of availability indicates unavailability of said application-server, if said difference exceeds said notification-period by a factor of N.

12. (Currently Amended): A computerized method for determining availability according to claim 10, comprising:

wherein said method is being executed for a multitude of application-servers, ~~and;~~

wherein in said third step

a subset of application-servers, comprising application-servers for which said measure of availability indicates availability, is determined, and

for each application-server within said subset its corresponding measure of availability is interpreted as a workload indication, ~~and~~

said application-service-request is being issued to an application-server with the lowest workload.

13. (Currently Amended): A system indicating availability of one or a multitude of application-servers, said system comprising:

a first device for inserting into a ~~persistent~~ central availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as said application-server is available, ~~and;~~

said device further inserts into said ~~persistent~~ central availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, ~~and;~~

whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server; and

said device updates the notification-period depending on the amount of workload of said application-server

either by increasing said notification-period, if said amount of the workload increases,

or by decreasing said notification-period, if said amount of the workload decreases.

14. (Currently Amended): A data processing program for execution in a data processing system comprising software code portions, said software code portions ~~comprises~~comprising:

a first software code portion for inserting into a ~~persistent~~ central availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as ~~said an~~ application-server is available, ~~and~~;

a second software code portion for inserting into said ~~persistent~~ central availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, ~~and~~;

whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server, ~~and~~; and

~~said method comprising a third step of a~~ third software portion for updating said notification-period depending on the amount of workload of said application-server

either by increasing said notification-period, if said amount of the workload increases,

or by decreasing said notification-period, if said amount of the workload decreases, and;

~~wherein said measure of availability of the second step indicates unavailability of said application server, if said difference exceeds said notification-period.~~

15. (Currently Amended): A computer program product stored on a computer usable medium, comprising a computer readable program embodied in said medium, including~~comprising~~:

readable code for inserting into a ~~remote-central~~ availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as an application-server is available, ~~said remote-central-availability-database comprising a persistent file system separate from said application-server, and;~~

readable code for inserting into said ~~remote-central~~ availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, ~~and~~

whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server; ~~and~~

readable code for updating said notification-period depending on the amount of workload of said application-server

either by increasing said notification-period, if said amount of the workload increases,

or by decreasing said notification-period, if said amount of the workload decreases.

16. (Currently Amended): A system for determining availability of one or multitude of application-servers for accepting application-service-request, said system comprising:

a first device for querying a ~~remote and persistent-central~~ availability-database;

for a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition-period of an availability-signal being repeated as long as said application-server is available; ~~and~~

for a second-data-element comprising for a recent availability-signal its time-stamp as recent availability-time;

said device determines a measure of availability of said application-server by comparing the difference of the current-time and said recent availability-time to said notification-period; ~~and;~~

wherein said device issues an application-service-request to said application-server only, if said measure of availability indicates availability of said application-server; and
said device updates the notification-period depending on the amount of workload of
said application-server

either by increasing said notification-period, if said amount of the workload
increases,

or by decreasing said notification-period, if said amount of the workload
decreases.

17. (Currently Amended): A data processing program for execution in a data processing system comprising software code portions, said software code portions ~~comprises~~comprising:

a first software code portion for querying a ~~remote and persistent~~ central availability-database;

for a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition-period of an availability-signal being repeated as long as said application-server is available; and

for a second-data-element comprising for a recent availability-signal its time-stamp as recent availability-time;

a second software code portion to determine a measure of availability of said application-servers by comparing the difference of the current-time and said recent availability-time to said notification-period; ~~and~~;

a third software code portion to issue an application-service-request to said application-server only, if said measure of availability indicates availability of said application-server; and

a fourth software code portion for updating said notification-period depending on
the amount of workload of said application-server

either by increasing said notification-period, if said amount of the workload
increases,

or by decreasing said notification-period, if said amount of the workload
decreases.

18. (Currently Amended): A computer program product stored on a computer usable medium, comprising a computer readable program embodied in said medium includingcomprising:

readable code for querying a ~~remote and persistent~~ central availability-database;
for a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition-period of an availability-signal being repeated as long as said application-server is available; and

for a second-data-element comprising for a recent availability-signal its time-stamp as recent availability-time;

readable code for determining a measure of availability of said application-server by comparing the difference of the current-time and said recent availability-time to said notification-period; and

readable code for issuing an application-service-request to said application-server only, if said measure of availability indicates availability of said application-server; and

readable code for updating said notification-period depending on the amount of workload of said application-server

either by increasing said notification-period, if said amount of the workload increases,

or by decreasing said notification-period, if said amount of the workload decreases.

19. (New): A computerized method for determining availability according to claim 8, comprising

wherein said measure of availability of the second step indicates unavailability of said application-server, if said difference exceeds said notification-period.